

### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) Apparatus for induction heating of pieces or blanks ~~(10)~~ of electrically conducting and non-magnetic material, comprising:

a device for creating a static magnetic field ~~(3)~~ comprising at least one coil comprising windings of superconducting material;

means for applying a direct current to said at least one coil; and

a device ~~(2)~~ for causing a relative rotational movement ~~(4)~~ between the piece or blank ~~(10)~~ and the static magnetic field ~~(3)~~, so that current ~~(12)~~ is induced in the piece or blank ~~(10)~~ which thereby is being heated up, ~~wherein the device for creation of the static magnetic field (3) comprises at least one coil (52,53) comprising windings of superconducting material.~~

2. (Currently Amended) Apparatus according to claim 1, wherein the at least one coil ~~(52,53)~~ is adapted to entirely or partially surround the piece or blank ~~(10)~~.

3. (Cancelled)

4. (Withdrawn, Currently Amended) Apparatus according to claim 1, wherein the device for creating of the static magnetic field ~~(3,31)~~ further comprises at least one permanent magnet ~~(51)~~.

5. (Withdrawn, Currently Amended) Apparatus according to claim 4, wherein the at least one permanent magnet ~~(51)~~ is included in an annular permanent magnet device arranged to surround the piece or blank ~~(10)~~.

6. (Cancelled)

7. (Cancelled)

8. (Currently Amended) Apparatus according to claim1, wherein the device ~~(2)~~ for relative movement is arranged to move the piece or blank ~~(10)~~ in relation to the static magnetic field ~~(3,31,32)~~.

9. (Currently Amended) Apparatus according to claim1, wherein the device for relative movement is arranged to move the device for creation of the static magnetic field ~~(3,31,32)~~ in relation to the piece or blank ~~(10)~~.

10. (Currently Amended) Apparatus according to claim1, further comprising a device for creation of an alternating magnetic field, so that the static magnetic field ~~(3,31,32)~~ is combined with the alternating magnetic field thereby having a common effect on the piece or blank ~~(10)~~.

11. (Cancelled)